

Evaluation Report for Category B, Subcategory 2.3 and 2.4 Application

Application Number: 2016-0498
Application: B.2.3 - New Identity of Formulants
B.2.4 - New Proportion of Formulants
Product: Mpower Imazamox Herbicide
Registration Number: #####
Active ingredients (a.i.): Imazamox
PMRA Document Number: 2773821

Purpose of Application

The purpose of this application was to register the end use product MPower Imazamox Herbicide to manage both grasses and broadleaf weeds in Clearfield crops, including canola, lentil, sunflower, and canola quality *Brassica juncea*.

Chemistry Assessment

Mpower Imazamox Herbicide is formulated as wettable granules containing imazamox at a nominal concentration of 70%. This end-use product has a density of 1.31 g/mL and pH of 2.88. The required chemistry data for Mpower Imazamox Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Mpower Imazamox Herbicide is toxicologically equivalent to the cited currently registered product.

The use pattern on the Mpower Imazamox Herbicide label for Clearfield lentils (lentil varieties with the Clearfield trait), including application rates, timing and number of applications, spray volumes, adjuvant use and pre-harvest interval, is similar to the registered use pattern on the label of the cited precedent product.

The formulation of Mpower Imazamox Herbicide is not expected to significantly impact the magnitude of imazamox residues in/on treated Clearfield lentils. Therefore, residues of imazamox in/on treated Clearfield lentils are not expected to increase and will be covered under the maximum residue limit (MRL) established at 0.25 ppm for imazamox in/on dry lentils.

Consequently, the dietary exposure to residues of imazamox is not expected to increase with the registration of Mpower Imazamox Herbicide and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

The use of the end-use product MPower Imazamox Herbicide on Clearfield canola (canola varieties with the Clearfield trait), Clearfield lentils (lentil varieties with the Clearfield trait), Clearfield sunflowers (sunflower varieties with the Clearfield trait) and Clearfield canola quality *Brassica juncea* (canola quality *Brassica juncea* varieties with the Clearfield trait) is not expected to result in potential occupational or bystander exposure over the registered use of imazamox. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

MPower Imazamox Herbicide is an end use product with imazamox as the active. A similar product is currently registered in Canada for the control of pests on the same crops with the same application rates and methods, and in the same use areas. The formulation for MPower Imazamox Herbicide is not expected to pose a risk to the environment. Therefore, the use of MPower Imazamox Herbicide is not expected to pose additional environmental concerns over currently registered imazamox products.

Value Assessment

The availability of MPower Imazamox Herbicide would provide farmers an alternative option to manage both grasses and broadleaf weeds in Clearfield crops, including canola, lentil, sunflower, and canola quality *Brassica juncea*. Registration of this product may increase product competition in the marketplace thereby potentially reducing purchasing costs of similar products.

The formulation of MPower Imazamox was compared to the formulation of the cited precedent product. It was concluded that differences in the formulations would be unlikely to result in any significant impact on product performance, both in the terms of efficacy and crop tolerance.

Conclusion

The PMRA has reviewed the information provided in support of the end use product MPower Imazamox Herbicide. Based on the results of this review, MPower Imazamox Herbicide is acceptable for registration.

References

- 2615102 2015, Combined Storage stability/corrosion characteristics Testing and Product chemistry testing of Imazamox 700 g/kg WDG, DACO: 3.5.1,3.5.10,3.5.14,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8 CBI
- 2615101 2016, Composition, DACO: 3.3.1,3.4.1 CBI
- 2615103 2016, DACO 3 - chemistry requirements, DACO: 3.1.1,3.1.2,3.1.3,3.1.4,3.5.11,3.5.12,3.5.13,3.5.15,3.5.4,3.5.5,3.5.9 CBI
- 2615100 2016, Manufacturing Process of Imzamox 70% WDG, DACO: 3.2.1,3.2.2 CBI
- 2741567 2017, Manufacturing Process of Imzamox 70% WDG, DACO: 3.2.2 CBI
- 2741570 2017, Validation of Enforcement Method for the Determination of Imazamox in Imazamox 70% WDF by HPLC-UV, DACO: 3.4.1 CBI
- 2743793 2017, Validation of Enforcement Method for the Determination of Imazamox in Imazzamox 70% WDG by HPLC-UV, DACO: 3.4.1 CBI

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